



LOAD RUNNER



LOAD RUNNER





















WELCOME to the first printout of LOAD RUNNER, the galaxy's first computer comic.

I am the CONTROLLER, and it is my function to ensure that each fortnight we input the finest storyprograms and fact routines.

Every possible check will be made to ensure the output will be of the highest quality but YOU are the judges. If there is anything good or bad you want to say, write to me. I will award three pounds for every letter printed.

Also write to BRAINY (see program 27), who has the knowledge to solve even the most awkward computer problem, whether it be a programming poser or a question on how to persuade your father to buy you a printer.

Be sure to buy every printout of LOAD RUNNER remember to order it from your newsagent - because there will be fabulous prizes to be won in our special competitions.

I am offering a special bonus to those of you who buy the first four issues. Simply collect the tokens printed each week, send them to me and you will receive your own LOAD RUNNER SECURITY PASS. The first token is printed below.

This will open the doors to untold adventure. Security pass holders will be first in the queue as we delve into the super-scientific world of computers. I am constantly online to the major forces in the

> ¬ computer world and I intend to make their work more

accessible to you.

Remember, it is my task and that of my programmers and operators - to perform as would a well-designed computer. We will be easy to access, useful to own and I fun to play with.

THE CONTROLLER.



Sord N



Retailing at £189, the Sord M5 is an advanced computer that anyone can operate easily.

Ideal for games playing, it can also be used for keeping household accounts and for bank loan management. It can even handle simple data processing.

The Sord M5 has the following

- Typewriter-like keyboard.
- 8K ROM
- 4K RAM
- 16K Video RAM
- Sound generator
- Colour graphics

It can be used with a domestic TV, and is compatible with an ordinary cassette tape recorder.



COMPETITION



BUGSY MALONE, always the sharpest of dudes, is right up to the minute with the behind-the-scenes organisation of the West End's new hit musical—he's computer-organised.

The show director, Michael Dolenz, pictured left with Bugsy, uses a Sord home computer to help him arrange the complicated rehearsal schedules as well as maintain a highly-efficient catalogue and easy reference to talented youngsters all over the country. He says:

"I used a Sord both for home and work long before I started on the stage version of *Bugsy Malone* and it has always been invaluable. Since I started working on transferring Bugsy from film to stage it has been like an extra right arm.

"The auditions alone attracted more than 10,000 children and in each cast there are 48 boys and girls. I don't think I could have organised the rehearsal schedules and had anything like a proper system without it."

Sord is the major investor in *Bugsy Malone*, which is receiving standing ovations from capacity audiences at Her Majesty's Theatre. The transfer of Alan Parker's film with splurge guns, pedal-car chases and characters such as Bugsy, Fat Sam, Tallulah, Dandy Dan, Blousey Brown, Fizzy and Knuckles, has been acclaimed as a triumph by adults as well as youngsters.

Competition

TO COINCIDE with the stage version of *Bugsy Malone*, *Load Runner* is offering three Sord M5 computers, plus free tickets to the show to the winners of this easy-to-do competition. The three first-prize winners will each receive a Sord M5 computer, plus a ticket to a matinee performance of *Bugsy Malone*. The three runners-up will each receive a free ticket to the same performance. Free tickets will also be provided for a parent or guardian to accompany each prizewinner.

All prizewinners will be given a guided tour of the Sord London showrooms, where they will receive hands-on experience of the Sord M5 computer before attending an afternoon performance of *Bugsy Malone*.

Send your entries to:

Bugsy Malone Competition, Load Runner, ECC Publications, 30–31, Islington Green, London N1 8BJ.

to arrive not later than Friday, July 8.

The usual rules of the editor's decision being final, and employees of ECC Publications and of Sord Computers being ineligible, apply.

How to enter

TO COINCIDE with the stage version of *Bugsy Malone*, Load Runner is offering three Sord M5 computers, plus free tickets to the show to the winners of this easy-to-do competition. The three first-prize winners will each has already been completed for you.

To the right are listed the surnames of several notorious American gangsters. All you have to do is to supply the popular names by which they were known. The first one has already been completed for you.

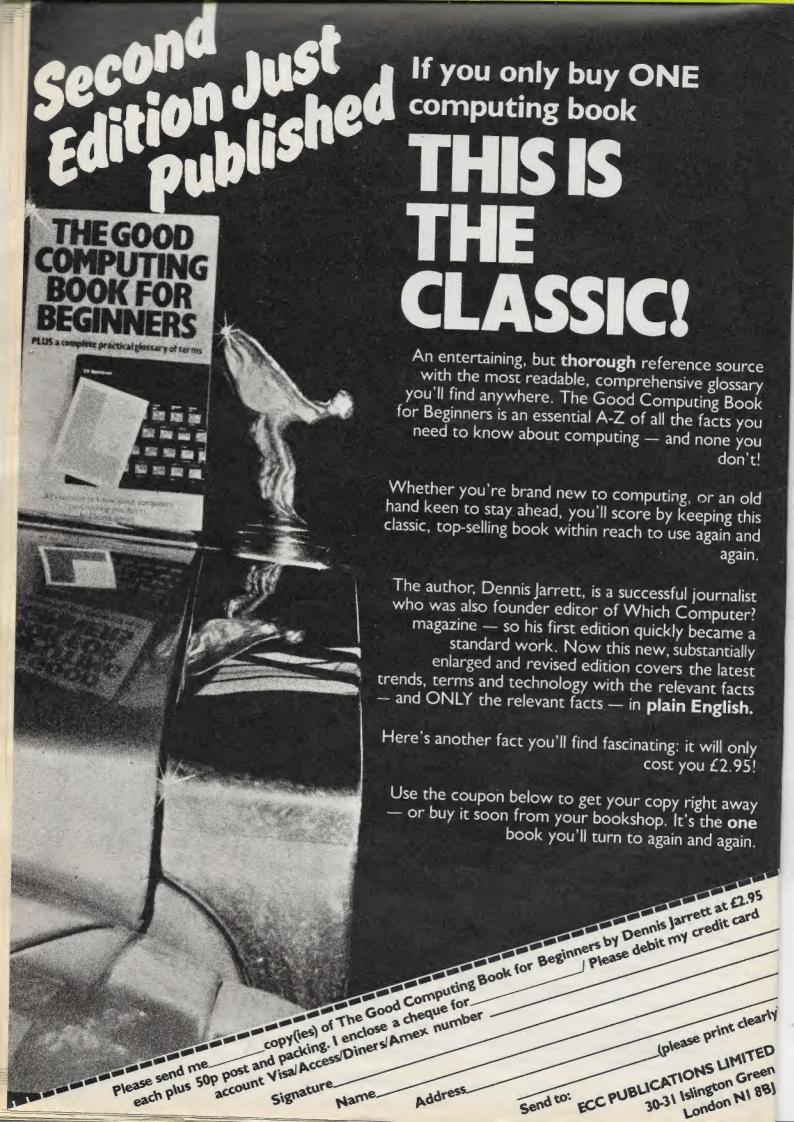
MACHINE GUN	KELLY
	FLOYD
	NELSON
	LUCIANO
	PARKER
	BARROW
	BARKER

As a tie-break, if one is necessary, complete the following sentence in not more than 12 words:

If I had a Sord M5 I would	
***************************************	*******************

Name
Address

..... Age















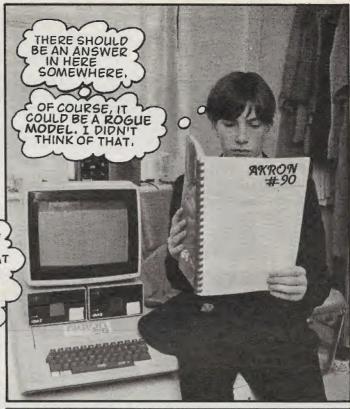




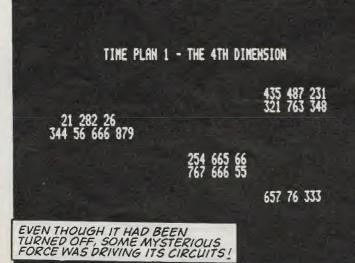
















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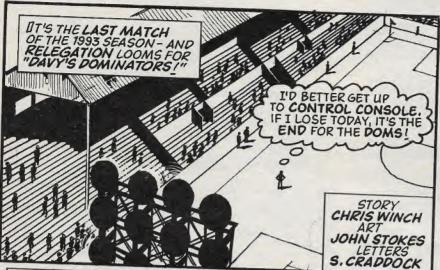
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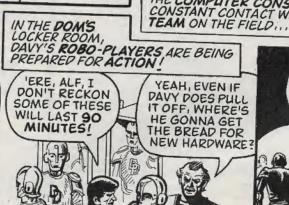














ANDY ROYD















ANDY ROYD







THE ROOM IS SUDDENLY BUZZING WITH EXCITE-MENT!

WELL, WELL! THAT WAS A NEW MOVE! BUT RE-MEMBER, A PRAW IS NOT GOOD ENOUGH!



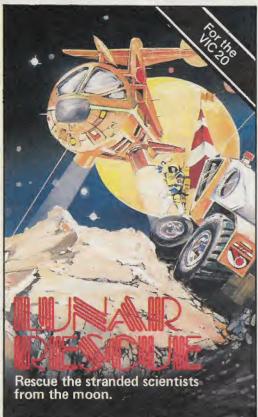


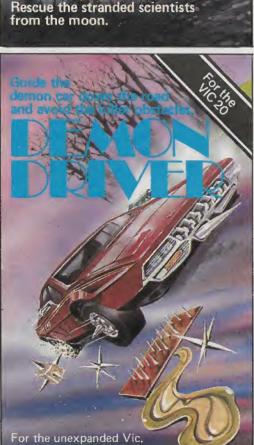






Attention Vic 20 Owners







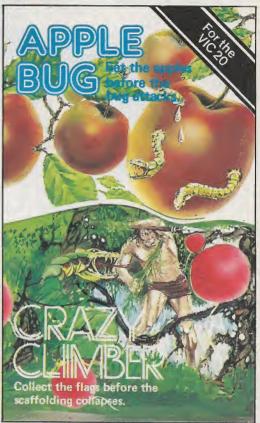
STOP PRESS!

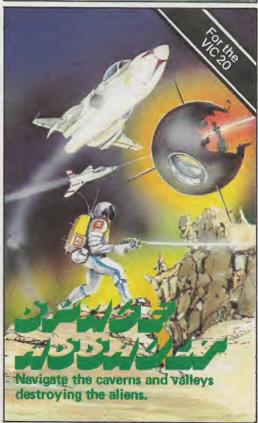
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COMPUTAFAX

The Astounding World of Computafax



COMPUTER ERRORS can be costly. When the Mariner 1 spacecraft was launched from Cape Canaveral at 4.21am on July 22, 1962, its intended mission was to photograph the planet Venus. Unfortunately, a minus sign wrongly-placed in the ground control computer program set off a dynamite charge in the Agena B 100ft. booster rocket 100 miles above the Atlantic, causing it to crash fourand-a-half minutes after blast-off. The cost of that misplaced minus sign—\$10 million.



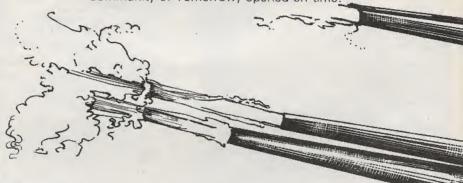
DID YOU KNOW that Walt Disney Productions is one of the biggest users of computers in the world? The one-billion-dollar EPCOT centre at Walt Disney World in central Florida, for example, is not only run by computers—it also makes extensive use of them to provide entertainment.

An amazingly life-like computerised model of Benjamin Franklin even struts across a stage before, unbelievably, walking upstairs.

Walt Disney envisaged EPCOT in great detail as long ago as 1965 but the project did not begin until late 1979.

There is a growing legend at Disney that its then president, Card Walker, told the contracted construction firm that EPCOT had to open, without fail, at 9 o'clock on October 1, 1982. The firm's official replied that it scarcely seemed sufficient time. Card stared at him and said: "How about 9.30?"

EPCOT, which stands for the Experimental Prototype Community of Tomorrow, opened on time.



THE IDEA of computers helping warships in battle is not new. Nearly 50 years ago, ships of the Royal Navy used a strange 'electronic computer' to control gunfire. Not surprisingly the device was called a Fire Control Clock and it was operated by a team of men who fed into the clock instructions which took account of distance, elevation of the ship and the wind. That produced quick and accurate gunfire which helped maintain Britain's superiority on the high seas.



for a short visit. He was impressed by the multi-million-pound array of electronic detection equipment Abort. To stop a computer prodress. The address is only a number already succeeded in getting puter will stop performing any work through the security system. The tell-tale sign at every door was a Access time. The time taken by small pile of mouse poison.

plained: "Nothing in life is perfect assette tape or on a floppy disc. but we are safe unless there is a Accuracy. The maximum length of

DID YOU KNOW that mice have Are you worried about where your PIXELS are? Do baffled one of the most sophisti- you know when to PEEK and when to POKE? Those

the world? The Air France com- words are buzzwords and the jargon of the computer

puter centre is so top-secret that world. They can be very confusing at first. Starting

even French journalists are not per- today, Load Runner will serialise a glossary of committed to visit it, or reveal its puting terms, beginning with ABORT and running all

One of our reporters gained entry the way to ZILOG. Get buzzing.

which keeps out terrorists but was gram if there is an error. The comsurprised to note that intruders had puter will stop performing any work

the computer to find a bit of infor-A spokesman for the airline ex- mation or a program stored on a

a number which a computer can

store. Some computers can store only numbers which are eight digits long, such as 12345678, but others

can store numbers 10 digits long, 1234567890.

Adapter. A device which will allow two pieces of equipment, such as a joystick and a computer, to be joined

so that they can work together.

Add-on. A piece of equipment, such as a joystick or a printer which

acan be attached to a computer.

 Address. The computer needs to know where all the information stored in memory is located. It gives each memory location an address so

that it can specify which bit of information it needs by using that adand usually starts at 0000 and continues upwards. In the same way the Post Office needs a postal address to send you letters.

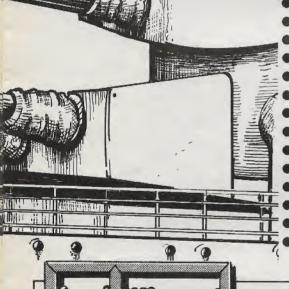
Algorithm. A method of solving a problem. For instance, we may want to know how to add two numbers, 2 and 3. The algorithm we use to find the answer is 2+3.

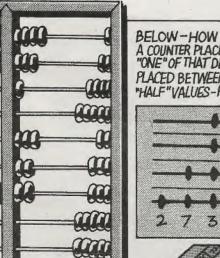
Alphanumeric. A string of characters, such as AB2CDE4, which contains letters of the alphabet and numbers.

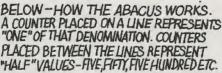
Alu. Arithmetic-Logic Unit. A device in the computer which does all the mathematical calculations, such as adding or division.

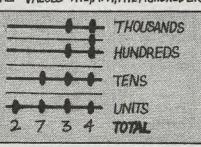
Application. A way in which the computer can be used. For instance the games of computer chess and space invaders are two applications.

Architecture. The physical design of the computer. It incorporates the keyboard, the ALU chip, the memory used, and even the keyboard casing.

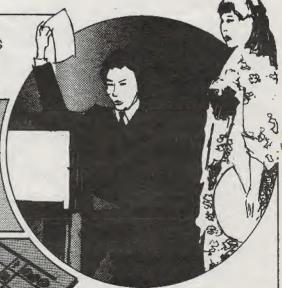








THE ABACUS WAS THE EARLIEST SYSTEMATIC AID TO CALCULATION.ORIGINALLY OF STONE, IT DEVELOPED INTO THE WOODEN COUNTING TABLES (RIGHT)USED IN EUROPE TIL THE 16TH CENTURY THE BEST-KNOWN FORM OF ABACUS 18 THE COUNTING FRAME (ABOVE) USED IN CHINA OVER 5,000 YEARS AGO, IT'S STILL USED IN MANY PARTS OF THE WORLD TODAY.



A SKILLED PERSON CAN CALCULATE VERY FAST WITH AN ABACUS. IN 1946 A JAPANESE CLERK NAMED KIYOSHI MATSUZAKI USED AN ABACUS AND WON A COMPETITION AGAINST AN ELECTRIC CALCULATOR.





JAD STARS

LTRAVOX has been experimenting successfully with electronic music for almost a decade and has a string of hit singles and albums to show for it. Recently Chris Cross, pictured here below, who has played bass and keyboards with the band since it first got together, decided to do some leisurely experimenting of his own with a Sinclair ZX-81 personal com-

Though critical of the ZX-81 keyboard, Chris was nevertheless impressed with it as a quick introduction to computing. "It has an element of fun to it, it's for real, but it's also a toy, which makes it very accessible; and, of course, it's

cheap."

Zapping aliens and exploring dank dungeons in the brief moments snatched between recording in the studios and touring overseas, Chris has quickly become a dedicated computer fan and now plans to replace his trusty Sinclair with something much bigger, possibly a BBC micro.

Meanwhile Ultravox, too, moves from strength to strength and its new album, Rage in Eden, is sure to re-affirm its position as "Britain's premier electronic band".



COUNT DOWN CHR05

by Philip Steele

here was no one to see the light-show close at hand. In the vast emptiness of space there was simply a great flare of white light in the blackness-gas and dust particles wheeling through the solar system, trailing a long misty tail.

The comet was spotted from Earth, of course; the first reports were from Australia. As the light grew brighter it was clear that the comet would pass very close to Earth. Experts argued how close was close. Some people said it would result in a year of rain and bad weather. Well, in Britain that was nothing unusual and soon the subject was forgotten.

As the comet drew close to Earth, it exerted an extraordinary, powerful influence; not on the weatherthere were no storms or hurricanes; not on humansalthough millions of humans were to suffer tragically. Earth. How it happened was never really discovered but it was the comet which triggered off the bacteria, there could be little doubt about that. . .

It was a day like any other. To start, Ellie overslept and blamed Joe for not waking her earlier. Dad burned the toast and then hid behind his newspaper at the breakfast table.

"What's going on out there in the world, then?" Joe asked him, scraping at his burnt offering.

"Umph?". The usual response.

"I said what's in the newspaper, dad?".

"Oh, the usual. Rovers heading for the fourth division. The Prime Minister thinks he's got problems. A new space shuttle flight. Some comet's about to engulf the world in flames".



"I don't believe it", he spluttered.

'What?" said Ellie.

"A comet. Well, of course, it's not actually going to hit The reaction took place deep in the ancient rocks of the us. Or set us ablaze. But they say it's passing very close", Dad gulped at his tea.

> "Now, in the old days that would have been taken as a proof of the end of the world or some kind of disaster. People thought comets were signals from the gods. Now

As the light grew brighter it was clear that the comet would pass very close to Earth.

we know they're just great splodges of gas shooting through space".

"What are you on about now?" interrupted Mum, going through the door with a pile of washing. "Are you going in for Mastermind or something? Or are you going



to be the first British spaceman? Spacemen probably get better pay than car workers-you should apply for a government re-training scheme. Oh, well. If you're so all electronic gadgets, right? And my watch?" clever, perhaps you could tell me why the washing night-Joe's football shirt has shrunk to nothing".

'Oh, no", wailed Joe. "It's the match this afternoon". "Well, it's not my fault", said Mum. "You'll just have

to borrow a shirt"

plaints as the dog welcomed the postman in the usual way. Ellie went to fetch the post and threw two letters on the table. Dad wiped the marmalade from the postmark and opened them.

"I don't believe it", he spluttered.
"We've won the pools?" asked Mum sarcastically.

statement this month. One thousand pounds. Oh, I suppose the bank will find their mistake soon enough. What's this?" he exclaimed as he opened the second

ENINTAGUNTA GURC

envelope. "An electricity bill for £79,000? What's going on? Damned computers. They never get a thing right. I'll

have to phone now".

'It's not the fault of computers, dad", said Ellie. "A computer is only as good or bad as its program and programming is still done by humans. Computers are really useful; think where you'd be at work without computers. They design your cars, they even build them. Soon we'll all have computerised robots in the house and none of us will have to bother about household chores again".

"Some of us don't bother very much already", said

Dad. "Off to school with you".

'How was the match?" Ellie met Joe on the top of the bus on the way home. It had been a hard day.

"Oh, we won 2-0. I had to borrow Fatso's shirt. I

looked dead stupid".

"We had a really weird day", said Ellie. "It was the maths test; right. Old Crabtree said we could use our calculators for questions five and six but none of them would work-mine kept multiplying instead of dividing. He said we'd all have to use long division but none of us could remember how to do it.

"Crabby went on and on about how in his day people had to use their brains and all that rubbish. Then this afternoon we were working on the computer with Miss

"What's going on, Joe? Hasn't anyone else noticed? The computers have all gone crazy".

Macrombie. I made some mistakes and got a real earful from her but she wasn't any better-she had a go and the

whole VDU went beserk".
"Trouble is", said Joe, "we both go to a lousy, pennypinching dump of a school. Nothing ever works. What's the time, anyway?

"Dunno. That's funny, my watch has stopped. My brand new super digital waterproof shockproof . . .

"Oh, shut up", said Joe "The point is we're late. This traffic's a mess".

"It's the traffic lights", said the conductor. "On the blink. All over town'

"Joe", said Ellie. "I think I've just had a funny idea". "Sure you have", said Joe. "Look—these things breaking down at school. They're

"Hey, that's right", said Joe. "And isn't traffic flow machine has gone crazy. It's been washing away all controlled by computer? And remember the washing machine at home? And Dad's post this morning?"

"What's going on, Joe? Hasn't anyone else noticed?

The computers have all gone crazy"

Joe and Ellie left the bus to the traffic jam and began to A flurry of barking from the hall drowned Joe's com- walk home. Suddenly they bumped into their father walking in the other direction.

"Back from work already?" chorused Joe and Ellie,

"Bad trouble at work", said Dad. "Been off since lunch. Total shut-down. Going back to lock up now". He hurried off into the crowds.

Joe looked at Ellie and shook his head. "Oh Ell, I just "As good as. There's an extra grand on my bank don't like the sound of all this", he said. "Not one little

CONTINUED IN NEXT ISSUE!



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SINCLAIR

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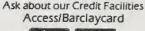
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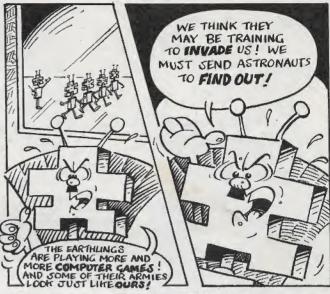
















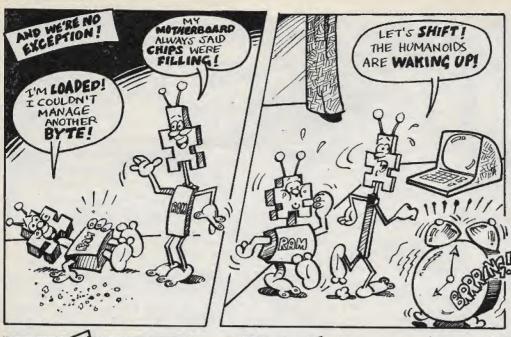




OK RAM,



ROM & RÄM













HI ! I'M BRAINY and I really rate computers. The biggest problem is buying the right one, so here's the first of my Brainbox guides.

I'm going to be a Load Runner every issue so write to me at 30-31 Islington Green, London N1 and I'll do my best to answer any questions you have. Believe me, no problem is too small . . . I can tell you why you should convince your dad to invest in a computer or I can end your Loading problems.

Remember, Brainy's the name and, by the way, I will pay £1 to anyone who's name is mentioned. Write

S WITH most things, the choice of which home computer to buy depends on the use. If you wished to play World Cup Soccer, you would not buy a cheap plastic ball. Similarly if you want to play games which are as good as those in the arcades there is no point in buying a ZX-81, the cheapest computer.

Before looking at any of the ever-increasing number of machines, it is best to take a pen and paper and write what you expect from your computer. Things which are usually important are how easy it is to use—does it have a simple keyboard? Can it be programmed easily? What software is available and what is the cost?

Against that look at what the computers have to offer. As a rough guide the more memory a machine has the better, and the more expensive it is the better it is. For example, a 1K ZX-81 costing less than £50 does not have the same abilities as a 16K Oric or Spectrum costing less than £100. Neither of those is as good as the BBC Model B computer which costs almost £400.

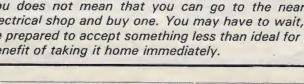
There are, however, a number of machines costing less than £200 which have broadly similar capabilities and it is for you to decide which suits you best. Features which most people find important are ease of loading pre-recorded cassettes, quality of colour and graphics, and the amount of software and hardware support available.

If all that seems a little vague, it must be because of the great range of uses people make of their computers. At one end there is the person who knows nothing about computers and wants to learn a little about what they can do but does not want to play games or put an entire collection of records on file.

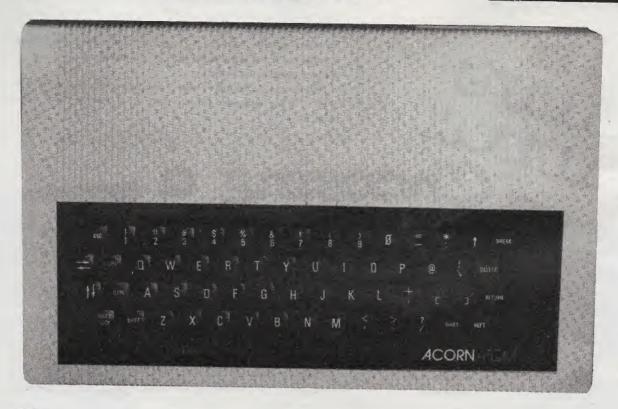
The basic 1K ZX-81 would be perfect for that person. Its keyboard can be difficult to use, its graphics are poor and it has a limited memory, but it is still a computer. At the other end of the scale there is the person who runs a small business and wishes to play arcade-quality games for whom an Apple II or Commodore Vic would be the answer.

Once you have done all that, make a list of your preferences. Because you think a machine is perfect for you does not mean that you can go to the nearest electrical shop and buy one. You may have to wait, so be prepared to accept something less than ideal for the benefit of taking it home immediately.





Acom Atom



Price

Numbers sold How sold **Processor** Standard RAM **Expansion RAM**

BASIC + operating system Display Tape recorder **Backing storage**

kit £120 £150 assembled

> 25,000-30,000 kit/assembled

6502 2K

internal 12K external 32K

8Kin ROM

black/white

16 lines × 32 characters Any cassette recorder

Disc drives

SOFTWARE

Acornsoft, 4A Market Hill, Cambridge A+F Software, 830 The Hyde, Manchester, M1870

BOOKS

Time Data Ltd., 16 Hemmels, Laindon, Basildon, Essex.

COMMENTS:

The Atom was one of the first small computers to have a typewriter keyboard. It is the predecessor of the BBC microcomputer and can run BBC BASIC if an upgrade kit is bought. This kit can be found at most Acorn stockists.

Unfortunately the Atom is a black and white display computer and an upgrade kit is required. This comes in the form of a colour board.

The machine is to be withdrawn in September when production stops. Books and software will still be sold and those who own an Atom should still be able to find information on their machines from computer magazines and comics:

ACORN COMPUTERS

4A Market Hill, Cambridge. Tel: 0223 245200

THIS IS A WORLD. IT IS A WORLD OF BEAUTY AND WONDER ... A WORLD OF LIGHT. IT IS CALLED ...



IT IS NOT THE REAL WORLD.

NO, THIS IS THE REAL WORLD. THERE IS NO WAR. THERE IS NO ESCAPE.

um PUSH ME!! WHY ARE YOU PUSHING? 11111

OVER THE OVER THE WORLD.

1111

IIII

YOU PON'T BELONG HERE:

17,000

PROGRAMMER TRUMBULL SITS AT CENTRAL CONTROL.

SCRIPT

ROB BEATTIE ARTWORK-MALCOLM STOKES

LETTERS-STEVE POTTER

WONDERING IF HE SHOULD TELL THE WORLD...

I MUST TELL THEM. IT WILL GIVE HOPE TO THE MILLIONS WHO LIVE IN THE CITY.

MEANWHILE... IN THE BOVERNMENT'S HALL OF INNOCENTS THERE IS DISCUSSION...

SIGNING OFF TO SYSTEM, CODE FOR TRUM. 6711e.

> SO, IT IS
> AGREED, WE
> HAVE APPROVED
> THE APPOINTMENT
> OF CAN TO
> WATCH OVER THE
> TRUMBULL SITUATION

AGREED.

YOU HONOUR ME.

SUPPLIES.



TRUMBULL'S WORLD



TRUMBULL'S WORLD



DATA UPDATE

POPOS WE BIGHO

THE RECENT LAUNCH of the world's first computer pop discs by EMI and Island Records is an exciting beginning to what might well be a new era for the music and home computer industries.

The EMI-released single has a pop song, *Camouflage*, on side A, and three computer programs for the Sinclair ZX-81 on the B side. If side B is loaded into the computer memory and then the sound on side A is played, the lyrics will be displayed

on a TV screen in time with the music. That is not all. Side B also contains two games for the ZX-81, one for the 1K version and one for the 16K.

Camouflage is the brainchild of 27-year-old Chris Sievey, a pioneering figure in the music industry. He has recorded eight albums and 15 singles, all on the independent label Razz Records, and in 1980 was the first to release a full-length pop video film. He has also produced a 3D TV, which was displayed to the

public in 1981. He is obviously a musician to watch.

Hot on Sievey's tracks is ex-Buzzcock Pete Shelley with a similar gimmick on his latest LP, *XL1*, distributed by Island Records. It contains a computer program for the Sinclair Spectrum which, when loaded, provides graphics and song lyrics to accompany the music.

What will be the next development in this exciting field? Perhaps a Pac-man game to the tune of *Eat to the Beat* . . . Watch this space.

Chris, computer and Camouflage





THE AREADIANS



YEAH, I DON'T RECKON YOU GUYS COULD BEAT MY TOP SCORE ON MIND WARP. MET

THEARCADIANS



that are now used by the Formula One teams = bed to beat all comers in the world Champion-

In this issue we feature the John Player Special Lotus, seven times world champions and maker of one of England's leading sports cars. This year it is using a 1,500cc turbocharged Renault engine which will power its number one English driver Nigel Mansell to speeds of more than 200mph.

In the car, pictured below, a computer is fitted. It gathers information on the engine performance, recording oil pressure, temperature, fuel consumption and, most important, controls the cutting-in and out of the

It also monitors the complicated hydraulic suspension system and relays all its information instantly to a Hewlett-Packard 82 computer in the pits. That means the race manager can detect anything which is about to go wrong before it happens and can quickly call in the car.

That makes racing safer and more efficient. Before computers were used, many races were lost on the last lap by the leader running out of fuel and several drivers have crashed through suspension failure.

A Hewlett-Packard 98/85 is used to help make car models for future designs. It collects data from windtunnel tests to ensure perfect streamlining and to produce minimum drag. It also measures the weight of air crammed down on to the rear wheels by the spoilers.

Right: Nigel Mansell driving the computer car at Long Beach, California in March this year.

Formula One micro driving

Motor racing today is safer and faster



The latest for Sinclair, Vic-20 and TI99/4a owners – at unbeatable prices!

The newest games like Carwars . . . Blasto . . . Pitman 7 and many more take their place this month in our lists!
Remember we search for brilliant new program sources throughout the U.K. and North America to find an exciting collection of new games — and business programs — many of which cannot be bought by mail order from any other source!

Every month, we'll be adding to our catalogue to bring you the best of new games, new business, educational and household software.

With our special new deal — you just CAN'T GO WRONG.

- * A free offer every month (this time it's a free blank C20 cassette with every two games ordered)
- * A replacement guarantee if you're not entirely satisfied with your purchase that's how confident we are about the quality and value!

All you have to do is look at our new HOT selection, then order quickly to be among the first to own these games of skill, intelligence and excitement (fast delivery is another of our specialities).

FREE BLANK C20 COMPUTER CASSETTE WITH EVERY TWO CASSETTES YOU ORDER!

Remember there's no limit to the number of free cassettes you receive if your order justifies them — so why not get together with friends or user group members and share the freebies?

GUARANTEE

Order with complete confidence. If you are not entirely satisfied with the quality of your purchase return it to us within 7 days and we will provide a replacement.

GREAT VALUE! TREMENDOUS SELECTION! PLUS A FREE OFFER EVERY TIME!

Fill in the order form right away — we're guaranteeing fast delivery, quality and satisfaction (after all, we want you to come back for more!)

The Software Workshop, Yew Tree, Selborne, Hants GU34 3JP





Now we've got a NEW selection for VIC 20 and Texas Instruments computers – as well as Sinclair!

TI (99/4a) Software		Defend your own ship from oncoming attackers. 16K RAM	£4.95
TI-01 Number Magic For the mathematically talented	£15.95	Spectrum Software	
TI-02 Carwars Fasten your seatbelt — it's a rough ride!	£21.95	2-12 Avenger (See 1-12 under ZX81). 48K RAM	€4.95
TI-03 Alligator Mix Watch those teeth	£27.95	2-13 Sentinel Guard your mother ship against alien attacks. 48K RAM	£4.95
TI-04 Blasto Explosive fun!	£21.95	2-14 Meteor Storm Spectrum version of the ever-popular	£4.95
Vic 20 Software		arcade game. 16K or 48K RAM 2-15 Star Trek	54.55
CV-01 Paratroopers Your chance to be a hero	£5.95	Popular space program brought to life by excellent graphics. 48K RAM	£4.95
CV-02 Cyclons Just you and your skill against mighty forces	£5.95	2-21 Frogger Manoeuvre the frog across the road avoiding heavy traffic, 48K RAM	£5.95
CV-11 Sheer panic But you keep your cool while others run for cover	£6.95	2-22 Crazy Balloons Guide the balloons round the maze without bursting. 48K RAM	£5.95
CV-12 Pitman 7 Pit your experience against this challenge!	£6.95	2-23 Arcadia The expert's version of the popular 'Invaders' game. 16K or 48K RAM	£5.95
ZX81 Software		2-24 Golf The finest of golf handicap games. 48K RAM	£5.95
Buy and sell your way to millions! 16K RAM 1-02 Football League	£3.95	2-25 Test Match More exciting than the real thing!	€5.95
First division fun for the soccer enthusiast. 16K RAM	£3.95	48K RAM 2-26 Derby Day This favourite has to be a winner.	
1-03 Test Match Match your wits alongside the superstars. 16K RAM	£3.95	48K RAM 2-27 Rescue Rescue the Princess from marauding	£5.95
1-11 Arcade Action Overtaker/Missile Man/Space Fighter/		patrols. 48K RAM 2-28 The Orb	£5.95
Pilot/Greedy Gobbler/Extra Terrestrial. 1K	£4.95	Discover the Orb in the depths of the temple but watch the monsters. 48K RAM	£5.95
1-12 Avenger Avoid missiles and bombs to become the ruler. 16K RAM	£4.95	2-29 Jackpot The harmless way to take on the one-	£5.95
1-13 Protector		armed bandit. 48K RAM	23.33

To: The Software Workshop, Yew Tree, Selborne, Hants GU34 3JP

I wish to order the following programs. I understand that:

- * I will receive a FREE blank cassette with every 2 programs ordered
- * I can return products within seven days if not entirely satisfied and receive a replacement to the same value.

Ref No	Qty	Title	Price
-			
*			
	-		
		and handling; add 45n for the	

Postage, packing and handling: add 45p for the first cassette, and 25p for each additional cassette. Non-UK orders add extra 50%

I enclose a cheque/postal order for _____

Name_____

Address_____

(Allow 28 days MAXIMUM FOR DELIVERY)



RACE the computer terms located in this screenful of computer data. To give you a clue, there are six to find and one of them can also be found in the explanation. Also one word is repeated. Which is it?

DPE S T K S A E N R

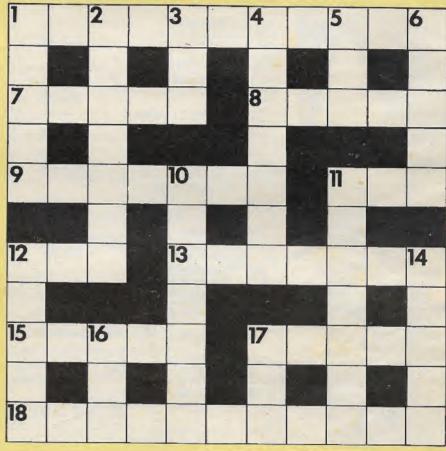
T TAKES a computer three minutes to execute 75 instructions using the Z-80 microprocessor chip at its heart. How long will it take to process 255 instructions?

.

HE LETTERS below were scrambled when we tried to print them with our printer. Can you find the four computer-related terms by re-arranging the letters of each string of characters? One of the items does not relate to computers. Which one?

> SCASCE UTIPN TOCUREPM WDARER **ODLA**

Answers in next issue



Across

- 1. Readers of the first computer comic? (4,7)
- Professional product of graphics system, I guess
- 8. Tiny start to your treasure (5)
- 9. Jails for machines which overheat (7)
 11. Article in another place (3)
- Lettuce in the function list (3)
- Gently stroke bird for a pretty display (7)
- 15. Go in for a carriage return (5)
- 17. Cheeky metal, perhaps (5)
- 18. What commercial users do to get computers

Down

- 1. Lump of wood on a chip for the basis of computer action (5)
- Things compared to non-digital computers (7)
- American cheer in a program further ahead (3) 4. What the programmer first does to a new variable (5,2)
- A common market (3)
- American shop for micro data (5) Sends overseas from input/output sockets (7)
- Young ones' category (7)
- Crystal-like instruction to get ready (5)
- 14. Loops inside others make pads for birds (5)
- 16. Touch of the sun is a function (3)
- 17. Public transport path for data (3)

Providing processor power to The Controller in publishing Load Runner were Bill Scolding (editor), David Hogan (advertisement manager) and Simon Ardizzone (administration). Chris Winch, Harold Mayes MBE, John Sterlicchi, Terry Cartwright and Richard Hease linked into the system. The corporate might of ECC Publications of 30-31 Islington Green was utilised continually. Print-out by Cradley Print PLC, Warley, West Midlands. ISSN 0264-8369.